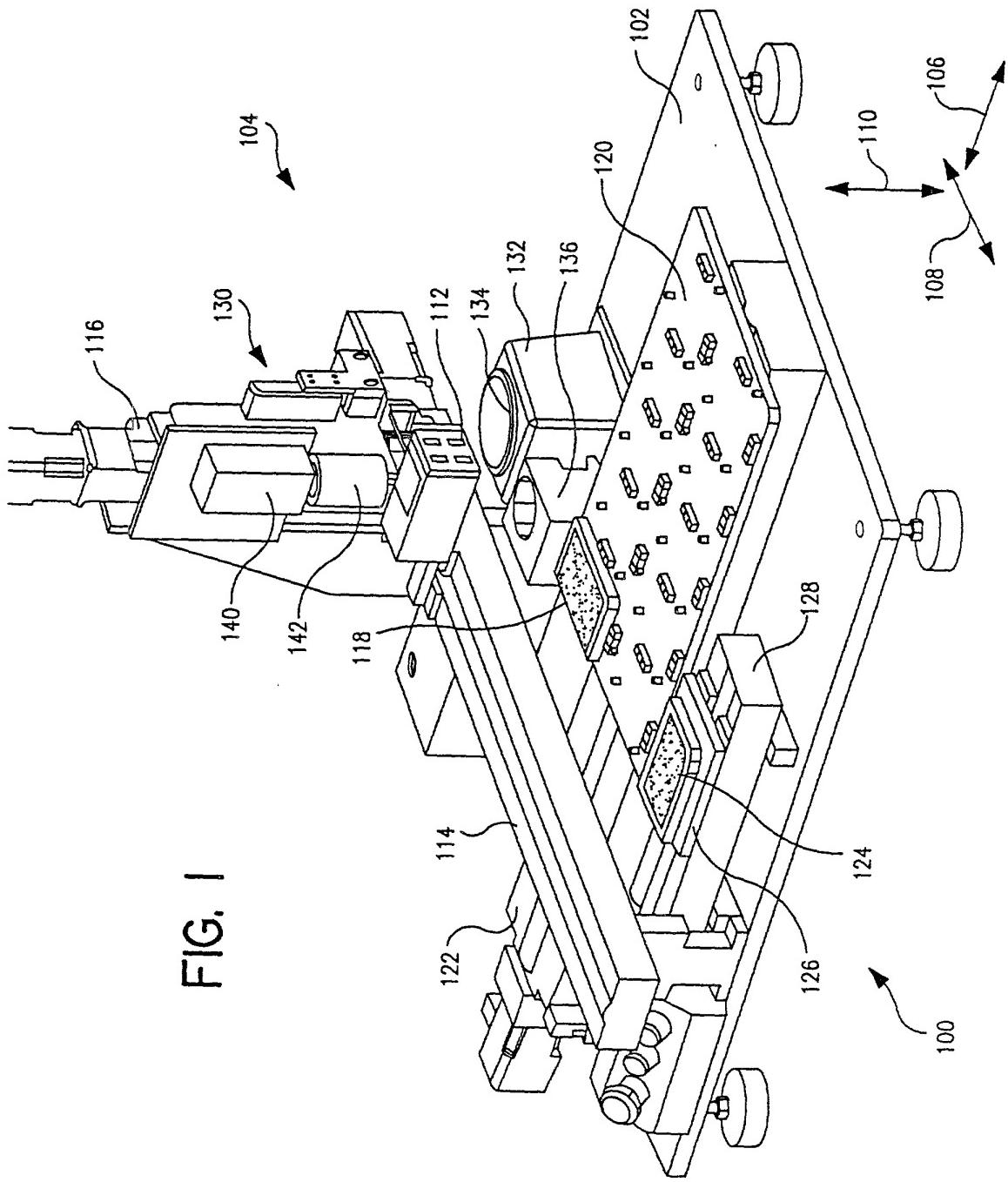


FIG. 1



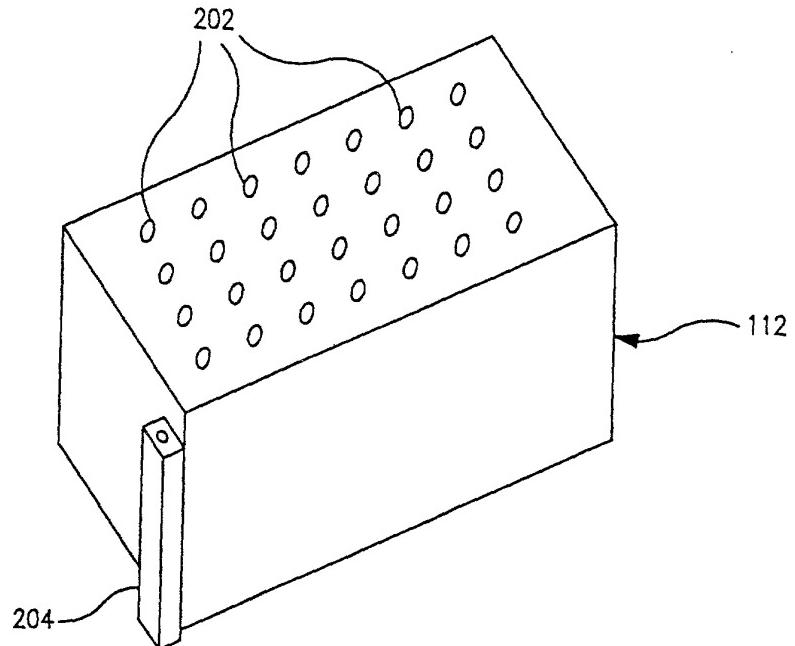


FIG. 2

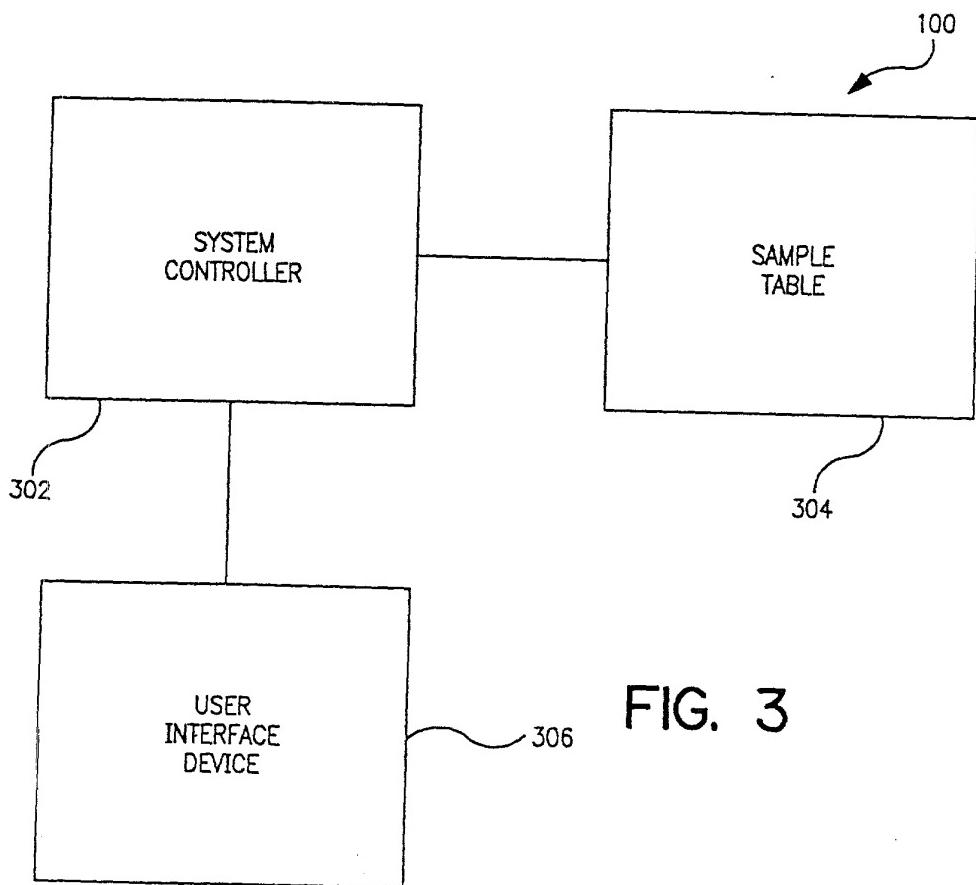


FIG. 3

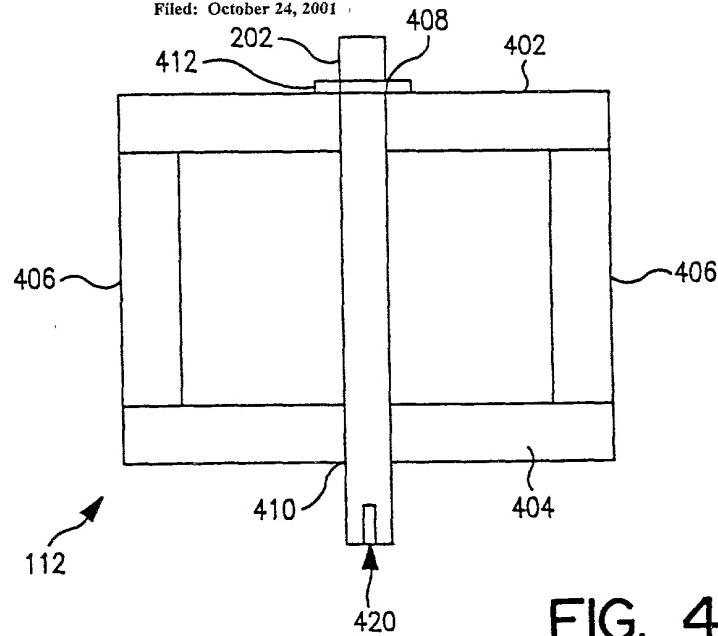
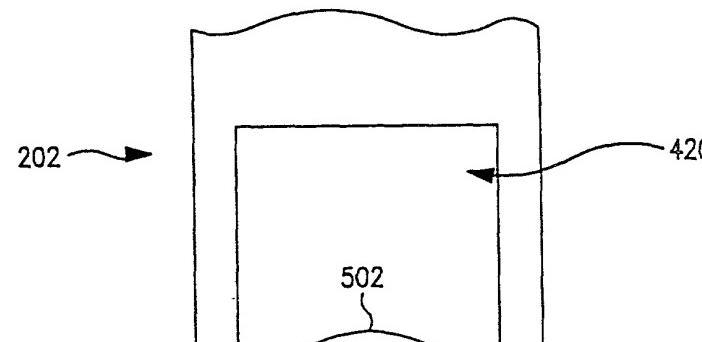


FIG. 4



-124-

FIG. 5

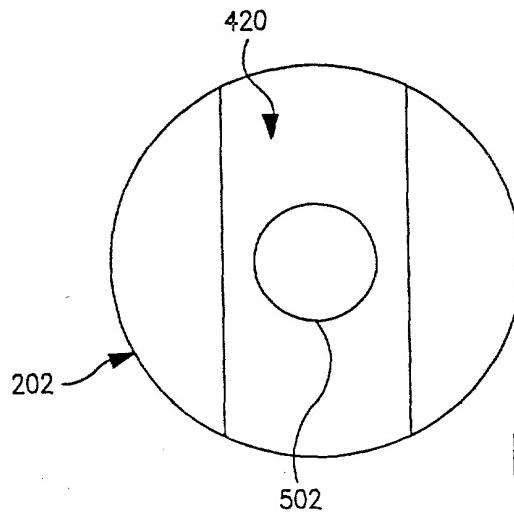


FIG. 6

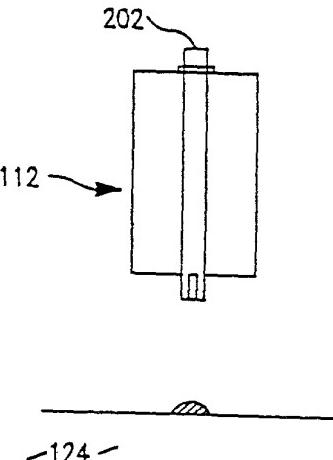
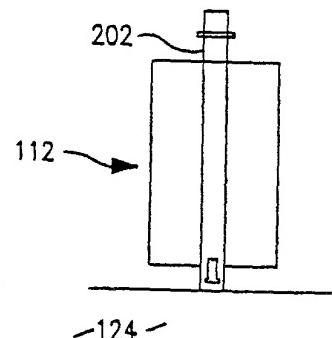
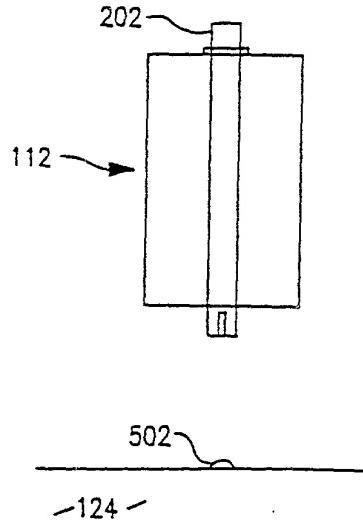


FIG. 7A

FIG. 7B

FIG. 7C

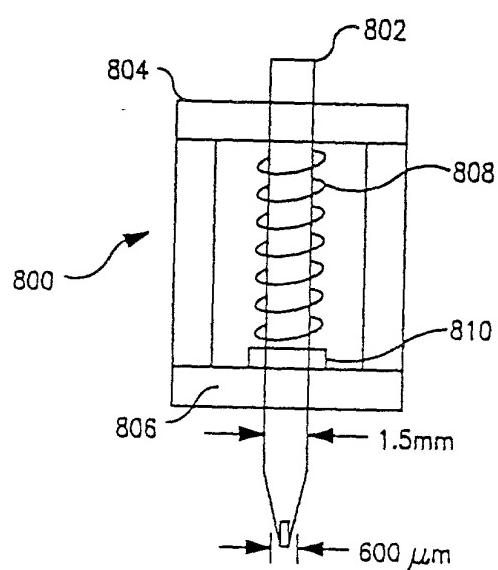


FIG. 8

Title: METHOD AND APPARATUS FOR DELIVERY
OF SUBMICROLITER VOLUMES ONTO A
SUBSTRATE
Docket No.: 24736-2046, XIAN WEI YAO, et. al.
Filed: October 24, 2001

Solenoid or Electro Magnet
to lift (release) the pin. i.e.
loading the spring

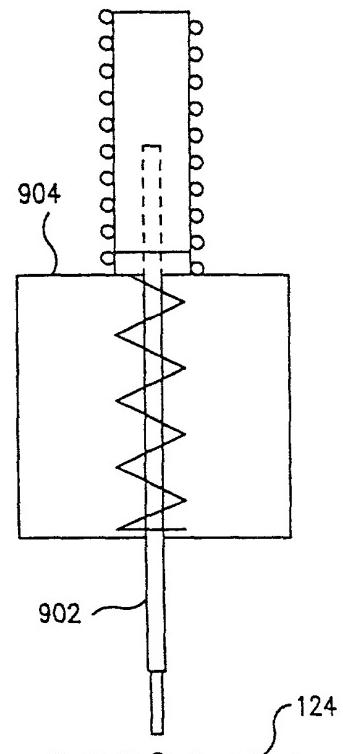
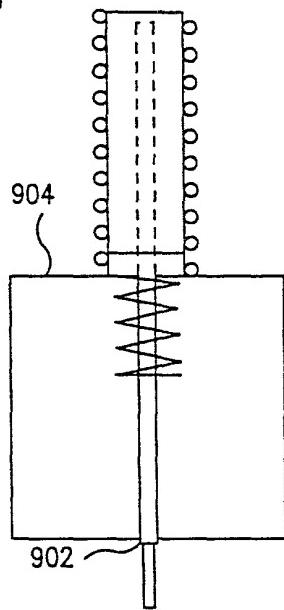
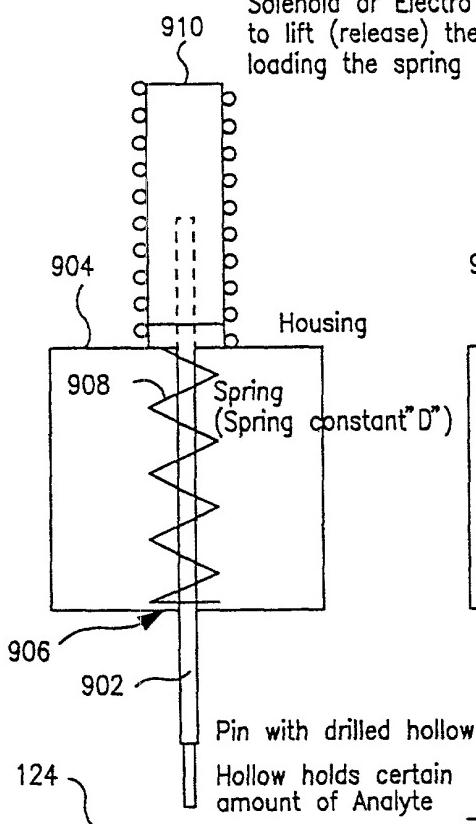


FIG. 9A

FIG. 9B

FIG. 9C

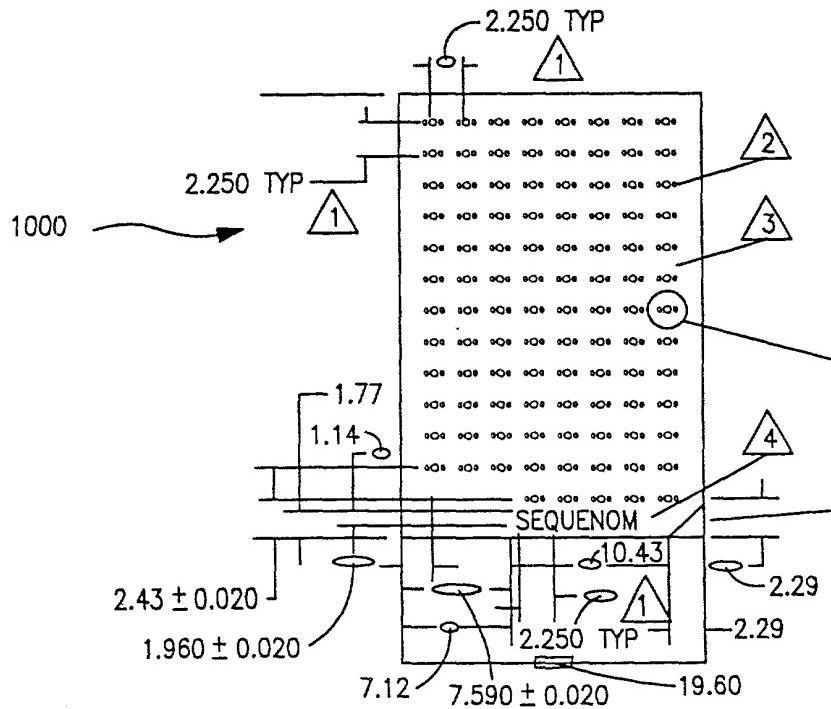


FIG. 10

Title: METHOD AND APPARATUS FOR DELIVERY
OF SUBMICROLITER VOLUMES ONTO A
SUBSTRATE

Docket No.: 24736-2046, XIAN WEI YAO, et. al.

Filed: October 24, 2001

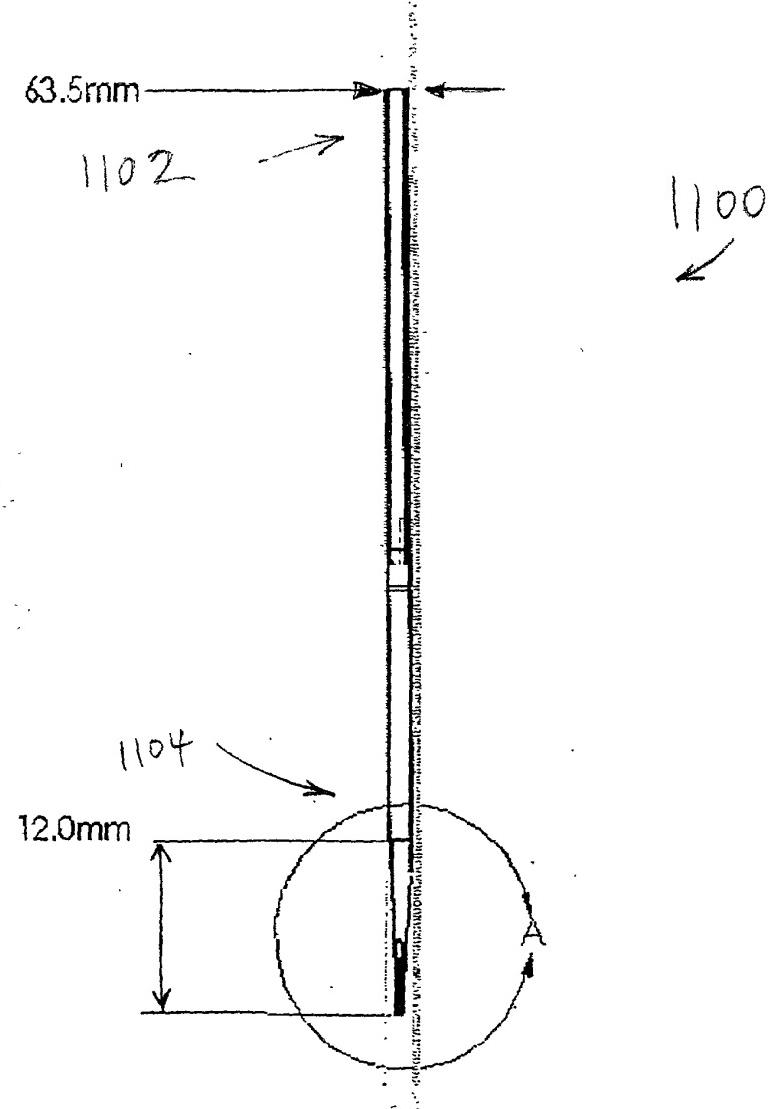


FIG. 11

Title: METHOD AND APPARATUS FOR DELIVERY

OF SUBMICROLITER VOLUMES ONTO A
SUBSTRATE

Docket No.: 24736-2046, XIAN WEI YAO, et. al.

Filed: October 24, 2001

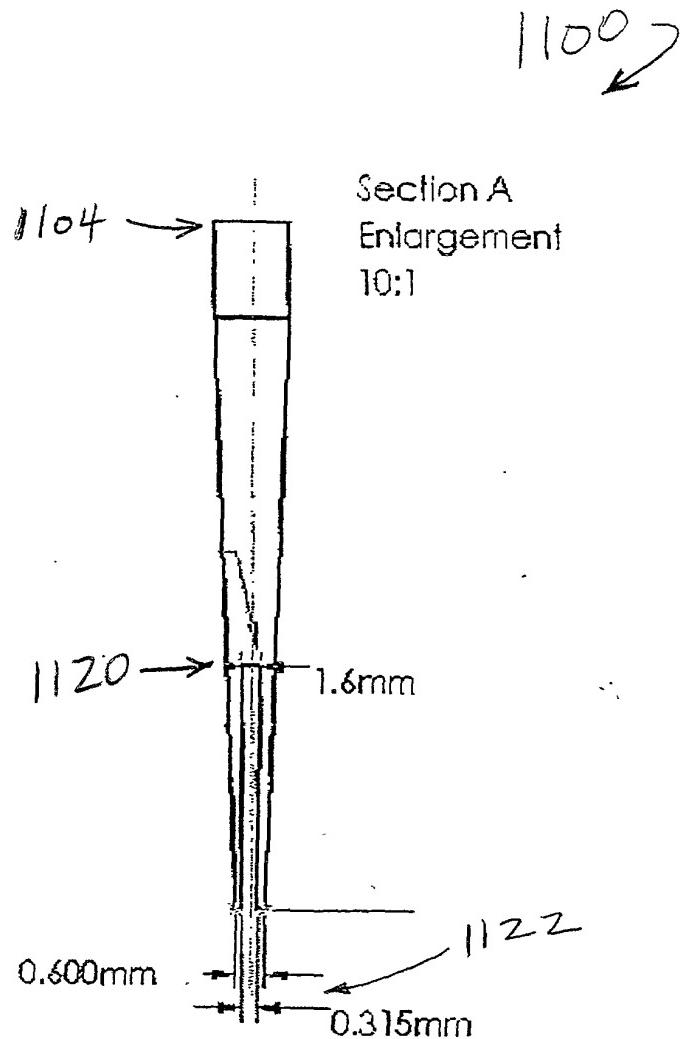


FIG. 12